

## ABSTRACT

A remote test unit (RTU) and method of operation are provided for utilizes the ability of an access matrix ability to route signals. The RTU can emulate a central Digital Subscriber Line Modem (DSLAM-C) for testing customer premises equipment containing a remote Digital Subscriber Line Modem (DSLAM-R). The RTU can also emulate a DSLAM-R for testing central offices equipment including a digital subscriber line access multiplexer (DSLAM) containing a DSLAM-C. The RTU can also emulate a concentrator connected to the DSLAM, a router connected to the concentrator, an Internet service provider (ISP) connected to the router, and a web site connected to the ISP over the Internet. The RTU can further test, using emulation, ISO/OSI layers defined in the ISO/OSI reference model which are connected to the DSLAM.